





Created: 3 days, 17 hours after earthquake

PAGER

Version 1

M 5.4, 103 km NNE of Hihifo, Tonga

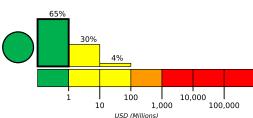
1,000

Origin Time: 2023-12-22 22:57:25 UTC (Fri 10:57:25 local) Location: 15.0709° S 173.4830° W Depth: 35.0 km

Estimated Fatalities 10,000

and economic losses. There is a low likelihood of casualties and damage.

Green alert for shaking-related fatalities Estimated Economic Losses 30%



Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	193k	0	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
DAMAGE	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

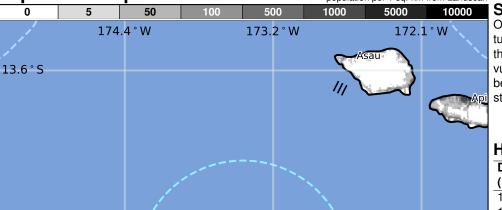
^{*}Estimated exposure only includes population within the map area.

Population Exposure

14.8°S

15.9°S

population per 1 sq. km from Landscan



Structures

Overall, the population in this region resides in structures that are vulnerable to earthquake shaking, though resistant structures exist. The predominant vulnerable building types are informal (metal, timber, GI etc.) and unknown/miscellaneous types construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1987-10-06	352	7.2	IV(19k)	_
1999-01-05	383	5.9	VII(15k)	_
2006-09-28	231	6.9	IV(197k)	0

Selected City Exposure

from G	eoNames.org	
MMI	City	Population
III	Hihifo	1k
Ш	Gataivai	1k
Ш	Vailoa	1k
Ш	Asau	7k
Ш	Lotofaga	1k
Ш	Nofoali'i	2k
Ш	Leulumoega	1k
Ш	Mulifanua	5k
Ш	A'opo	0
Ш	Safotulafai	<1k
Ш	Apia	40k

bold cities appear on map.

(k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

Hihifo